

A photograph of a firefighter's locker. On a shelf at the top, several pieces of protective gear are hanging, including a white helmet with a black cross symbol, a dark helmet, and a silver helmet. Below the shelf, several dark-colored jackets are hanging on a metal bar. The scene is dimly lit, with a strong light source from the left creating a bright glow on the wall and the gear.

REPAIR GUIDELINES

NFPA 1851 | 2020 ED.

StedAIR®
MOISTURE BARRIERS

Product Information

Stedair® 3000

This moisture barrier, certified to NFPA 1971 (2018 ed.), is comprised of non-woven apertured spunlace substrate laminated to a bicomponent ePTFE membrane.

Stedair® 4000

This moisture barrier, certified to NFPA 1971 (2018 ed.), is comprised of a woven Aramid substrate laminated to a bicomponent ePTFE membrane.

Stedair® Gold

This moisture barrier, certified NFPA (2018 ed.), is comprised of a tri-blend Aramid/PBI/Para Aramid substrate laminated to a bicomponent ePTFE membrane.

Stedair® Seam Tape

This seam tape works on all Stedair® moisture barriers and is available in three widths:

- Stedair® TX 1200 - 7/8" PTFE seam tape
- Stedair® TX 1201 - 1" PTFE seam tape
- Stedair® TX 1912-NA-B - 1.5" meta-aramid knit on PTFE seam tape *meta-aramid is only available in 1.5"



CARE

Follow the guidelines outlined in NFPA 1851 (2020 ed.) when caring for NFPA 1971 (2018 ed.) compliant turnout gear. As far as Stedair® moisture barriers are concerned, no deviations from this standard shall be made.

Stedfast recommends:

- (I) pH within 6.0-10.5
- (II) g-force less than 100
- (III) maximum water temperature below 105F
- (IV) avoid diaphragm water extraction.

When the outer material requires a solvent to remove petroleum based stains, it is recommended that the moisture barrier is separated from the outer prior to pre-wash cleaning or soaking. Solvents that remove petroleum materials may damage textiles and moisture barrier.

To maintain the performance and warranties of Stedair® products, we recommend that each organization assesses the suitability of all cleaning products based on the requirements outlined in NFPA 1851 (2020 ed.)

STEDFAST IS PROUD TO HAVE THE BEST WARRANT- TIES IN THE INDUSTRY.



The Stedair® Moisture Barrier Warranty Program covers our three NFPA-1971 barriers. The warranty covers workmanship and quality of this barrier from leakage directly attributed to normal wear in the structural firefighters' line of duty. This warranty does not cover damage to barriers that is the result of punctures, tears, seam failure, thermal attack from firefighting, extensive training or other non-related structural firefighting actions that result in abuse to the moisture barrier beyond ordinary/regular wear.

The garment must be maintained, cleaned and documented in full accordance with NFPA 1851-2020.

INSPECTION

Follow the guidelines outlined in NFPA 1851 (2020 ed.) for routine and advanced inspections for the first 36 months of the garment's life. After 3 years, a complete liner inspection must be conducted as per NFPA 1851 (2020 ed.).

A change in the moisture barrier's natural color, from white to brown, is a signal that the garment may have been exposed to unusually high temperatures and that a complete liner inspection should be performed.



Recommended Settings using Stedair® Seam Tape:

Product	Temperature (°F)	Pressure Setting	Time
Stedair® 3000	275 +/- 25	0.02	15(+/-3) sec.
Stedair® 4000	300 +/- 25	0.02	15(+/-3) sec.
Stedair® Gold	300 +/- 25	0.02	15(+/-3) sec.

Remember to avoid direct contact between heat plate and seam tape as excess adhesive may squeeze out and damage plate.

The adhesive on the seam tape will melt between 200-230°F, so a lower temperature (e.g. 210°F) may be used, if desired. The pressure application time may need to be adjusted to compensate for the lower temperature. You may check the quality of your repair using a Hydrostat Tester and through liquid penetration testing.

Hydrostat:

Apply 1psi pressure for 15 seconds (maximum). You should not see any water droplets on the surface.

Liquid Penetration Testing:

Stedfast will test samples for Liquid Penetration Testing, according to NFPA 1851 (2020 ed.). Contact:

Brian Barton

bbarton@stedfast.com

Please keep in mind that temperatures and pressures can vary from one heat press to another. The recommended settings are to be used as "starting points" for Care & Repair professionals who should be prepared for some trial and error. Coupling your expertise with regular heat press calibration and maintenance will ensure settings, suitable for your specific heat press, are confirmed and NFPA 1851 (2020 ed.). Verification can be obtained.

PRODUCTS

Stedair® 3000 (5 yard minimum)
Stedair® 4000 (5 yard minimum)
Stedair® Gold (5 yard minimum)
Stedair® Seam Tape 7/8" width (200 yards/roll)
Stedair® Seam Tape 1" width (200 yards/roll)
Stedair® Seam Tape 1.5" width (200 yards/roll)

Identify yourself as a Verified ISP.
Be prepared to provide your TaxID number if shipment will be made to a US address.

ACQUIRING STEDAIR PRODUCTS

Stedair® moisture barriers and seam tapes may be acquired by contacting:

Louise Choiniere

Internal Sales & Customer Service Manager.

lchoiniere@stedfast.com

(450) 378-8441

For other enquiries, please contact:

Brian Barton

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(603) 724-1875



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